

METHOD FOR JOINING A TUBE TO A MEMBER

ABSTRACT OF THE DISCLOSURE

5       A method for joining a tube to a member. A tube having a flange is obtained, and a member is obtained. The tube and the member are positioned with the flange contacting the member either directly or indirectly through an intervening joining material. The tube and/or the member are locally heated proximate the contact of the flange and the member without substantially  
10      heating the tube and/or the member apart from proximate the contact of the flange and the member. In one example, the local heating is welding, with or without a filler material, such as resistance welding, laser-beam welding or electron-beam welding. In another example, the local heating is brazing. In an additional example, a curable adhesive joining material is placed on the flange  
15      and/or the member, wherein the adhesive is located between and directly contacts the flange and the member, and wherein the local heating cures the adhesive.